

# Matthew McKenzie

## List of Publications by Year in descending order

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66  
papers

4,533  
citations

87843

38  
h-index

138417

58  
g-index

70  
all docs

70  
docs citations

70  
times ranked

6479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Respiratory Chain Supercomplexes Are Destabilized in Barth Syndrome Patients. <i>Journal of Molecular Biology</i> , 2006, 361, 462-469.	2.0	373
2	Understanding mitochondrial complex I assembly in health and disease. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 851-862.	0.5	351
3	Analysis of the Assembly Profiles for Mitochondrial- and Nuclear-DNA-Encoded Subunits into Complex I. <i>Molecular and Cellular Biology</i> , 2007, 27, 4228-4237.	1.1	242
4	Mutation of the Mitochondrial Tyrosyl-tRNA Synthetase Gene, YARS2, Causes Myopathy, Lactic Acidosis, and Sideroblastic Anemia—MLASA Syndrome. <i>American Journal of Human Genetics</i> , 2010, 87, 52-59.	2.6	211
5	Mitochondrial Cardiolipin Involved in Outer-Membrane Protein Biogenesis: Implications for Barth Syndrome. <i>Current Biology</i> , 2009, 19, 2133-2139.	1.8	204
6	Human CIA30 is involved in the early assembly of mitochondrial complex I and mutations in its gene cause disease. <i>EMBO Journal</i> , 2007, 26, 3227-3237.	3.5	184
7	Assembly of mitochondrial complex I and defects in disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 78-88.	1.9	180
8	Mutation of C20orf7 Disrupts Complex I Assembly and Causes Lethal Neonatal Mitochondrial Disease. <i>American Journal of Human Genetics</i> , 2008, 83, 468-478.	2.6	175
9	Mitochondrial DNA copy number is regulated in a tissue specific manner by DNA methylation of the nuclear-encoded DNA polymerase gamma A. <i>Nucleic Acids Research</i> , 2012, 40, 10124-10138.	6.5	154
10	The identification of mitochondrial DNA variants in glioblastoma multiforme. <i>Acta Neuropathologica Communications</i> , 2014, 2, 1.	2.4	143
11	Mutations in MTFMT Underlie a Human Disorder of Formylation Causing Impaired Mitochondrial Translation. <i>Cell Metabolism</i> , 2011, 14, 428-434.	7.2	141
12	Assembly factors of human mitochondrial complex I and their defects in disease. <i>IUBMB Life</i> , 2010, 62, 497-502.	1.5	120
13	Functional Respiratory Chain Analyses in Murid Xenomitochondrial Cybrids Expose Coevolutionary Constraints of Cytochrome b and Nuclear Subunits of Complex III. <i>Molecular Biology and Evolution</i> , 2003, 20, 1117-1124.	3.5	118
14	The regulation of mitochondrial DNA copy number in glioblastoma cells. <i>Cell Death and Differentiation</i> , 2013, 20, 1644-1653.	5.0	110
15	Analysis of mitochondrial subunit assembly into respiratory chain complexes using Blue Native polyacrylamide gel electrophoresis. <i>Analytical Biochemistry</i> , 2007, 364, 128-137.	1.1	103
16	Combined defects in oxidative phosphorylation and fatty acid $\beta$ -oxidation in mitochondrial disease. <i>Bioscience Reports</i> , 2016, 36, .	1.1	89
17	Mitochondrial Disease: Mutations and Mechanisms. <i>Neurochemical Research</i> , 2004, 29, 589-600.	1.6	87
18	Integrating Mitochondrial Aerobic Metabolism into Ecology and Evolution. <i>Trends in Ecology and Evolution</i> , 2021, 36, 321-332.	4.2	87

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19	Expression of <i>Rattus norvegicus</i> mtDNA in <i>Mus musculus</i> Cells Results in Multiple Respiratory Chain Defects. <i>Journal of Biological Chemistry</i> , 2000, 275, 31514-31519.	1.6	85
20	Assembly of nuclear DNA-encoded subunits into mitochondrial complex IV, and their preferential integration into supercomplex forms in patient mitochondria. <i>FEBS Journal</i> , 2009, 276, 6701-6713.	2.2	79
21	Production of homoplasmic xenomitochondrial mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1685-1690.	3.3	73
22	Mitochondrial DNA Haplotypes Define Gene Expression Patterns in Pluripotent and Differentiating Embryonic Stem Cells. <i>Stem Cells</i> , 2013, 31, 703-716.	1.4	65
23	Restoration of normal embryogenesis by mitochondrial supplementation in pig oocytes exhibiting mitochondrial DNA deficiency. <i>Scientific Reports</i> , 2016, 6, 23229.	1.6	65
24	Tim29 is a novel subunit of the human TIM22 translocase and is involved in complex assembly and stability. <i>ELife</i> , 2016, 5, .	2.8	65
25	A Founder Mutation in PET100 Causes Isolated Complex IV Deficiency in Lebanese Individuals with Leigh Syndrome. <i>American Journal of Human Genetics</i> , 2014, 94, 209-222.	2.6	60
26	Mitochondrial ND5 Gene Variation Associated with Encephalomyopathy and Mitochondrial ATP Consumption. <i>Journal of Biological Chemistry</i> , 2007, 282, 36845-36852.	1.6	59
27	Characterization of mitochondrial FOXRED1 in the assembly of respiratory chain complex I. <i>Human Molecular Genetics</i> , 2015, 24, 2952-2965.	1.4	59
28	Measurement of Mitochondrial Membrane Potential with the Fluorescent Dye Tetramethylrhodamine Methyl Ester (TMRM). <i>Methods in Molecular Biology</i> , 2019, 1928, 69-76.	0.4	59
29	Proteomic and Metabolomic Analyses of Mitochondrial Complex I-deficient Mouse Model Generated by Spontaneous B2 Short Interspersed Nuclear Element (SINE) Insertion into NADH Dehydrogenase (Ubiquinone) Fe-S Protein 4 ( <i>Ndufs4</i> ) Gene. <i>Journal of Biological Chemistry</i> , 2012, 287, 20652-20663.	1.6	58
30	The Use of Resolvases T4 Endonuclease VII and T7 Endonuclease I in Mutation Detection. <i>Molecular Biotechnology</i> , 2003, 23, 73-82.	1.3	57
31	Mitochondrial Fatty Acid Oxidation Disorders Associated with Short-Chain Enoyl-CoA Hydratase ( <i>ECHS1</i> ) Deficiency. <i>Cells</i> , 2018, 7, 46.	1.8	54
32	Mutations in the Gene Encoding C8orf38 Block Complex I Assembly by Inhibiting Production of the Mitochondria-Encoded Subunit ND1. <i>Journal of Molecular Biology</i> , 2011, 414, 413-426.	2.0	52
33	Next-generation sequencing in molecular diagnosis: <i>NUBPL</i> mutations highlight the challenges of variant detection and interpretation. <i>Human Mutation</i> , 2012, 33, 411-418.	1.1	49
34	Loss of mitochondrial DNA-encoded protein ND1 results in disruption of complex I biogenesis during early stages of assembly. <i>FASEB Journal</i> , 2016, 30, 2236-2248.	0.2	49
35	Monocytes and dendritic cells are the primary sources of interleukin 37 in human immune cells. <i>Journal of Leukocyte Biology</i> , 2017, 101, 901-911.	1.5	49
36	The Effects of Nuclear Reprogramming on Mitochondrial DNA Replication. <i>Stem Cell Reviews and Reports</i> , 2013, 9, 1-15.	5.6	48

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37	Loss of the Mitochondrial Fatty Acid $\beta$ -Oxidation Protein Medium-Chain Acyl-Coenzyme A Dehydrogenase Disrupts Oxidative Phosphorylation Protein Complex Stability and Function. <i>Scientific Reports</i> , 2018, 8, 153.	1.6	47
38	Chapter 18 Analysis of Respiratory Chain Complex Assembly with Radiolabeled Nuclear- and Mitochondrial-Encoded Subunits. <i>Methods in Enzymology</i> , 2009, 456, 321-339.	0.4	43
39	Mitochondrial DNA haplotypes induce differential patterns of DNA methylation that result in differential chromosomal gene expression patterns. <i>Cell Death Discovery</i> , 2017, 3, 17062.	2.0	33
40	Impaired Cellular Bioenergetics Causes Mitochondrial Calcium Handling Defects in MT-ND5 Mutant Cybrids. <i>PLoS ONE</i> , 2016, 11, e0154371.	1.1	28
41	Anti-cancer analogues ME-143 and ME-344 exert toxicity by directly inhibiting mitochondrial NADH: ubiquinone oxidoreductase (Complex I). <i>American Journal of Cancer Research</i> , 2015, 5, 689-701.	1.4	23
42	Development and Initial Characterization of Xenomitochondrial Mice. <i>Journal of Bioenergetics and Biomembranes</i> , 2004, 36, 421-427.	1.0	22
43	Mutation detection using fluorescent enzyme mismatch cleavage with T4 endonuclease VII. <i>Electrophoresis</i> , 1999, 20, 1162-1170.	1.3	21
44	Understanding the role of OXPHOS dysfunction in the pathogenesis of ECHS1 deficiency. <i>FEBS Letters</i> , 2020, 594, 590-610.	1.3	21
45	Dietary interventions designed to protect the perinatal brain from hypoxic-ischemic encephalopathy – Creatine prophylaxis and the need for multi-organ protection. <i>Neurochemistry International</i> , 2016, 95, 15-23.	1.9	20
46	Simultaneous Measurement of Mitochondrial Calcium and Mitochondrial Membrane Potential in Live Cells by Fluorescent Microscopy. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	16
47	AarF Domain Containing Kinase 3 (ADCK3) Mutant Cells Display Signs of Oxidative Stress, Defects in Mitochondrial Homeostasis and Lysosomal Accumulation. <i>PLoS ONE</i> , 2016, 11, e0148213.	1.1	15
48	Prenatal acoustic programming of mitochondrial function for high temperatures in an arid-adapted bird. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211893.	1.2	14
49	Capture of Somatic mtDNA Point Mutations with Severe Effects on Oxidative Phosphorylation in Synaptosome Cybrid Clones from Human Brain. <i>Human Mutation</i> , 2014, 35, 1476-1484.	1.1	12
50	MicroRNA-101-3p Modulates Mitochondrial Metabolism via the Regulation of Complex II Assembly. <i>Journal of Molecular Biology</i> , 2022, 434, 167361.	2.0	9
51	Deletion of the Complex I Subunit NDUFS4 Adversely Modulates Cellular Differentiation. <i>Stem Cells and Development</i> , 2016, 25, 239-250.	1.1	8
52	Modulation of ceramide-induced cell death and superoxide production by mitochondrial DNA-encoded respiratory chain defects in <i>Rattus xenocybrid</i> mouse cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 817-825.	0.5	7
53	Assessment of the web-based audience response system socrative for biomedical science revision classes. <i>International Journal of Educational Research Open</i> , 2020, 1, 100008.	1.0	7
54	Pioglitazone and Deoxyribonucleoside Combination Treatment Increases Mitochondrial Respiratory Capacity in m.3243A&gt;G MELAS Cybrid Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2139.	1.8	7

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55	The Effects of In Utero Fetal Hypoxia and Creatine Treatment on Mitochondrial Function in the Late Gestation Fetal Sheep Brain. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-19.	1.9	6
56	Mitochondrial dysfunction in a novel form of autosomal recessive ataxia. <i>Mitochondrion</i> , 2013, 13, 235-245.	1.6	4
57	Analysis of Mitochondrial DNA in Induced Pluripotent and Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2015, 1330, 219-252.	0.4	3
58	Mitochondrial DNA Mutations and Their Effects on Complex I Biogenesis: Implications for Metabolic Disease. , 2013, , 25-47.		3
59	The Use of Resolvases T4 Endonuclease VII and T7 Endonuclease I in Mutation Detection. , 2000, 152, 187-199.		2
60	Mitochondrial research in Australia: A major player in worldwide trends. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1225-1226.	1.1	0
61	Generation of Xenomitochondrial Embryonic Stem Cells for the Production of Live Xenomitochondrial Mice. <i>Methods in Molecular Biology</i> , 2016, 1351, 163-173.	0.4	0
62	Nuclear response to divergent mitochondrial DNA genotypes modulates the interferon immune response. <i>PLoS ONE</i> , 2020, 15, e0239804.	1.1	0
63	Nuclear response to divergent mitochondrial DNA genotypes modulates the interferon immune response. , 2020, 15, e0239804.		0
64	Nuclear response to divergent mitochondrial DNA genotypes modulates the interferon immune response. , 2020, 15, e0239804.		0
65	Nuclear response to divergent mitochondrial DNA genotypes modulates the interferon immune response. , 2020, 15, e0239804.		0
66	Nuclear response to divergent mitochondrial DNA genotypes modulates the interferon immune response. , 2020, 15, e0239804.		0